

PRODUCTION OF PC STEEL ROD EXCELLENT IN UNIFORM ELONGATION AND HIGH TEMPERATURE RELAXATION CHARACTERISTIC**Publication number:** JP9241745 (A)**Publication date:** 1997-09-16**Inventor(s):** YOKOTA TOMOYUKI; SHIRAGAMI TETSUO; MIZOGUCHI SHIGERU; YAMASHITA EIJI; NITTA HAJIME**Applicant(s):** NIPPON KOKAN KK; HIGH FREQUENCY HEATTREAT**Classification:****- international:** C21D8/08; C22C38/00; C22C38/06; C22C38/58; C21D8/06; C22C38/00; C22C38/06; C22C38/58; (IPC1-7): C21D8/08; C22C38/00; C22C38/06; C22C38/58**- European:****Application number:** JP19960044827 19960301**Priority number(s):** JP19960044827 19960301**Abstract of JP 9241745 (A)**

PROBLEM TO BE SOLVED: To provide a producing method capable of producing a PC steel rod excellent in uniform elongation of $\geq 1420\text{N/mm}^2$; tensile strength and high temp. relaxation characteristics without applying a strain applying stage and stages such as reheating treatment.

SOLUTION: A steel contg., by weight, 0.05 to 0.35% C and 0.2 to 3.0% Mn and furthermore contg. Si and Al so as to satisfy $2.0 \leq \text{Si} + \text{Al} \leq 5.0\%$ is subjected to hot rolling and is thereafter subjected to direct quenching at a cooling rate of 5 to 50 deg.C/s to form its structure into the one consisting essentially of martensite, by which the PC steel rod excellent in uniform elongation of $\geq 1420\text{N/mm}^2$; tensile strength and high temp. relaxation characteristics can be produced.

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